

**WEST****End of Result Set**

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File: DWPI

Jan 14, 1993

DERWENT-ACC-NO: 1993-019072

DERWENT-WEEK: 199303

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TITLE: Hydrochloric acid pickling soln. regeneration with cold sulphuric acid - giving ferrous sulphate hepta:hydrate as useful by-product

INVENTOR: VON CZARNOWSKI, G

PATENT-ASSIGNEE:

ASSIGNEE

VON CZARNOWSKI G

CODE

VCZAI

PRIORITY-DATA: 1991DE-4122920 (July 11, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 4122920 A1	January 14, 1993		004	C23G001/36
DE 4122920 C2	September 9, 1993		004	C23G001/36

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 4122920A1	July 11, 1991	1991DE-4122920	
DE 4122920C2	July 11, 1991	1991DE-4122920	

INT-CL (IPC): C23G 1/36

ABSTRACTED-PUB-NO: DE 4122920A

BASIC-ABSTRACT:

In the regeneration of pickling solns. contg. HCl by adding conc. H2SO4, the soln. is kept at a temp. below 45 deg. C.

Reaction between H2SO4 and Fe chloride is carried out in vacuo. Cold centrifuge filtrate contg. H2SO4 is pref. used as cooling medium.

USE/ADVANTAGE - The process is esp. used for regenerating solns. used for pickling steel strip. All the FeCl2 present is converted to FeSO4.7H2O, which is readily soluble and can be used for various purposes, e.g. H2SO4 recovery, dyestuff prodn. or water treatment. In contrast, regeneration with conc. H2SO4 at over 50 deg.C gives FeSO4.H2O, which is insoluble in water and cannot be recovered economicall y, whilst roasting gives Fe2O3 and entails a high energy consumption.

by

ABSTRACTED-PUB-NO:

DE 4122920C

EQUIVALENT-ABSTRACTS:

The regeneration comprises addn. of concentrated H2SO4 at below 45 deg.C; and dissolution of the evolved HCl gas in a water spray. The aq. acid is recycled to the

# WEST Search History

DATE: Monday, August 05, 2002

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L17	L16 and l10 and l7 and l4 and l3 and l2	35	L17
L16	cool\$3	1416105	L16
L15	L14 not l9	14	L15
L14	L13 not l6	16	L14
L13	l2 same l3 same l7 same l10	21	L13
L12	l2 and l3 and l7 and l10	528	L12
L11	L10 same l7	506	L11
L10	pickl\$4	25665	L10
L9	L8 not l6	166	L9
L8	l5 and L7	204	L8
L7	crystal\$7	957196	L7
L6	((423/\$)!.CCLS.) and L5	69	L6
L5	l1 and l2 and l3 and L4	411	L5
L4	ferrous adj sulfate or feso?sub.4	13884	L4
L3	hcl or hydrochloric	291851	L3
L2	sulfuric or h?sub.2 so?sub.4	217679	L2
L1	ferrous adj chloride or fecl?sub.2	6040	L1

END OF SEARCH HISTORY